



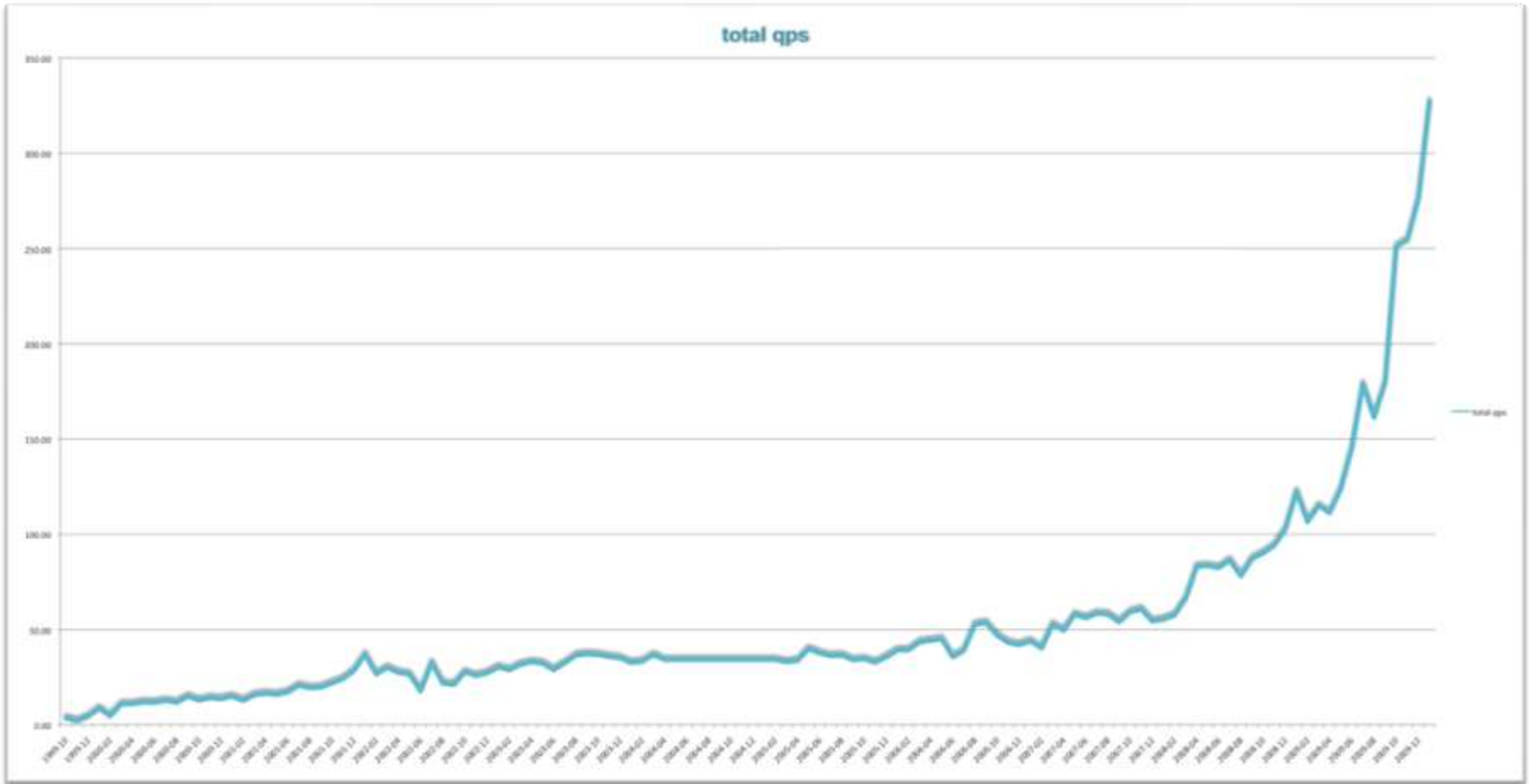
ARIN Update

Scott Leibrand
AfrINIC 12
Kigali, Rwanda

4-byte ASN Stats

- **In 2009**
 - Received 197 requests for 4-byte ASNs
 - 140 changed request to 2-byte
 - ARIN issued 27 4-byte ASNs
 - 15 exchanged for 2-byte ASNs
 - Total 4-byte ASNs issued in 2009 = 12
- **Typical reason for exchange:**
“Upstream said their router wouldn’t support 4-byte ASN”

WHOIS Traffic



WHOIS Traffic Loads

- Over 50% of the queries are self-referential
 - 192.168.2.5 asking for 192.168.2.5
 - Most are singleton queries
 - Increasing over the last year
- This may be an emerging botnet that uses WHOIS
- Most seem to be windows boxes
- Any ideas on what code is causing this?
- Replacing legacy WHOIS service with whois-rws to help solve this issue

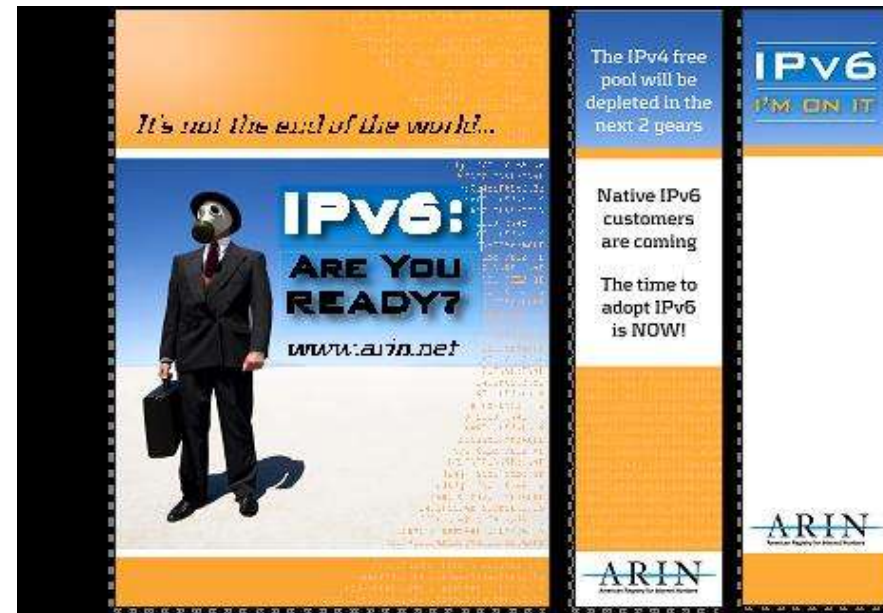
Public-Facing Development Efforts

- **ARIN Online**
- **DNSSEC**
 - Signing zones now
 - Interfaces to allow you to insert DS records in rolled out in 2010
- **RPKI**
 - Will be a production service at the end of 2010
 - Pilot available at <http://rpki-pilot.arin.net>
- **Whois-RWS**
 - Will be a production service in 2010
 - Pilot available at <http://whoisrws-demo.arin.net>

Outreach

- **ARIN continues to participate in various regional, national and international forums**

- IPv4 depletion
- IPv6 adoption
- 4-Byte ASNs
- The RIR System
- Policy Development Process



- **Microsite – teamarin.net**

Implemented Policy

- **IPv4**

- Transfers (2009-1)
- Last /8, 3 month supply maximum (2009-8)

- **IPv6**

- Removed requirement to route the single aggregate (2009-7)
- Multiple Discrete Networks (2009-5)
- Community Networks (2008-3)

Draft Policy Discussions

- **Awaiting Board review (adoption likely)**
 1. Initial IPv6 Allocation Criteria – multi-homers to get /32s (2010-4)
 2. M&A Transfer policy – M&As made easier (unused space to be returned) (2010-6)
- **Work to continue**
 1. Waiting list for Unmet IPv4 Requests (2010-1)
 2. IPv4 minimum assignment to /24 (renumbering req.) (2010-2)
 3. IPv6 assignment criteria (2010-8)

Draft Policy Discussions cont.

- **Abandoned**

1. Customer Confidentiality (2010-3)
2. IPv4 minimum allocation to /23 (renumbering req.) (2010-5)
3. Standard IPv6 allocation sizes /48, /40, /32, /28, /24 (2010-7)

New Policy Proposals

- 1. Directory Services (Policy Proposal 109) – (On Docket)**
Defines “organizational information”, extends current cable address policy to all residential markets, duplicates IPv4 reassignment policy to IPv6
- 2. IPv6 Rapid Deployment (113) – (On Docket)** Additional IPv6 /32 and larger allocations for provisioning 6rd
- 3. End of IPv4 policy (111) – (TBD)** Four prefix maximum per request
- 4. Last /8 (110) – (Abandoned)** Creates multiple pools for special purposes, including new entrants, and small and multihomed organizations (for migration to IPv6)
- 5. Last /8 (112) – (Abandoned)** Reserves all of the last /8 for special requests
- 6. IPv4 Allocations (114) – (Abandoned)** Initial requests can count use of RFC 1918 space

ARIN Meetings

(Atlanta and Puerto Rico)



References

- Proposals and adopted policies
 - <https://www.arin.net/policy/proposals/index.html>
- Mailing Lists
 - https://www.arin.net/participate/mailing_lists/index.html

Thank you!